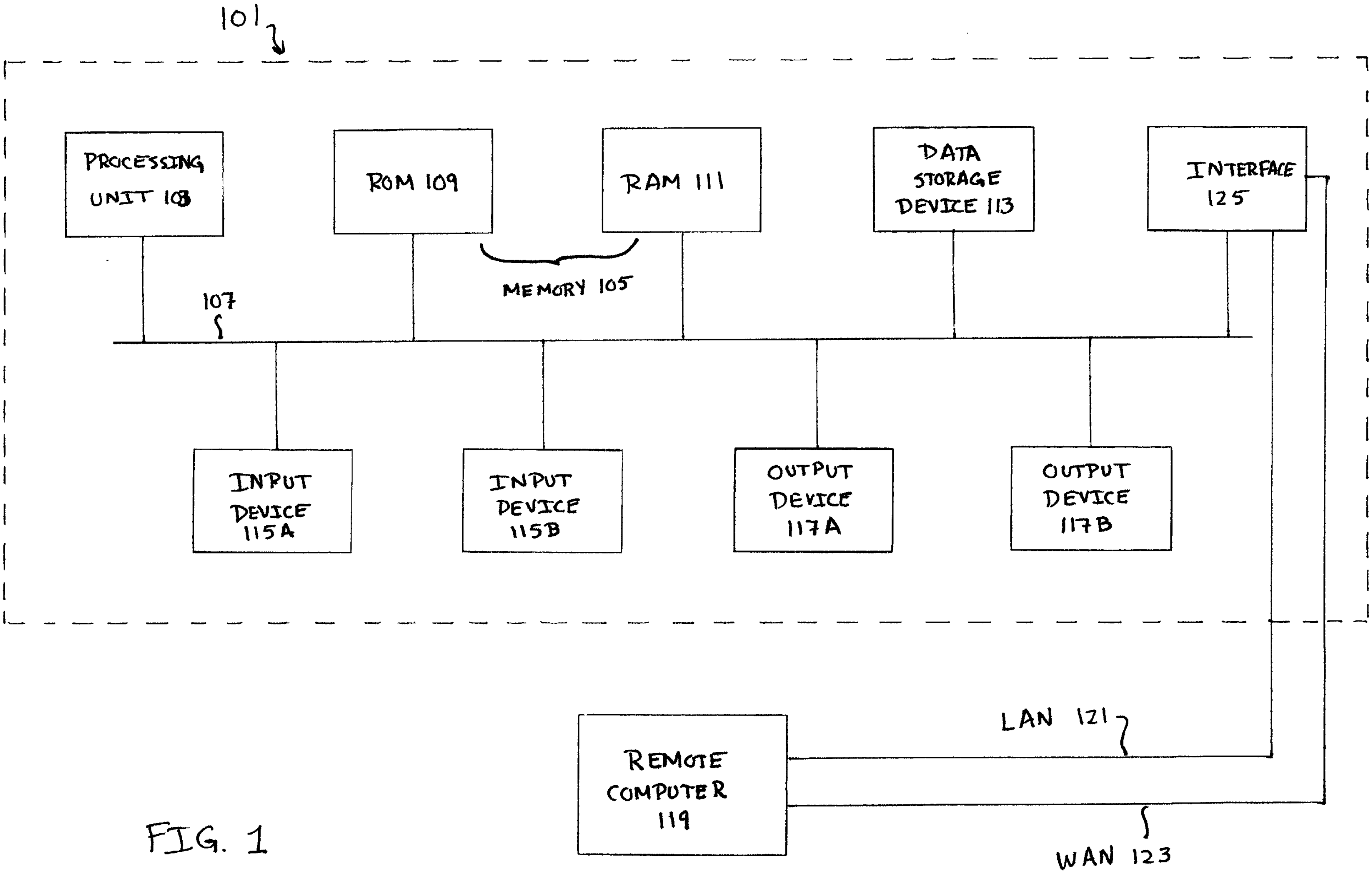
101
PROCESSING UNIT 103
ROM 109
RAM 111
MEMORY 105
DATA STORAGE DEVICE 113
INTERFACE 125
107
INPUT DEVICE 115A
INPUT DEVICE 115B
OUTPUT DEVICE 117A
OUTPUT DEVICE 117B
REMOTE COMPUTER 119
LAN 121
WAN 123

FIG. 1

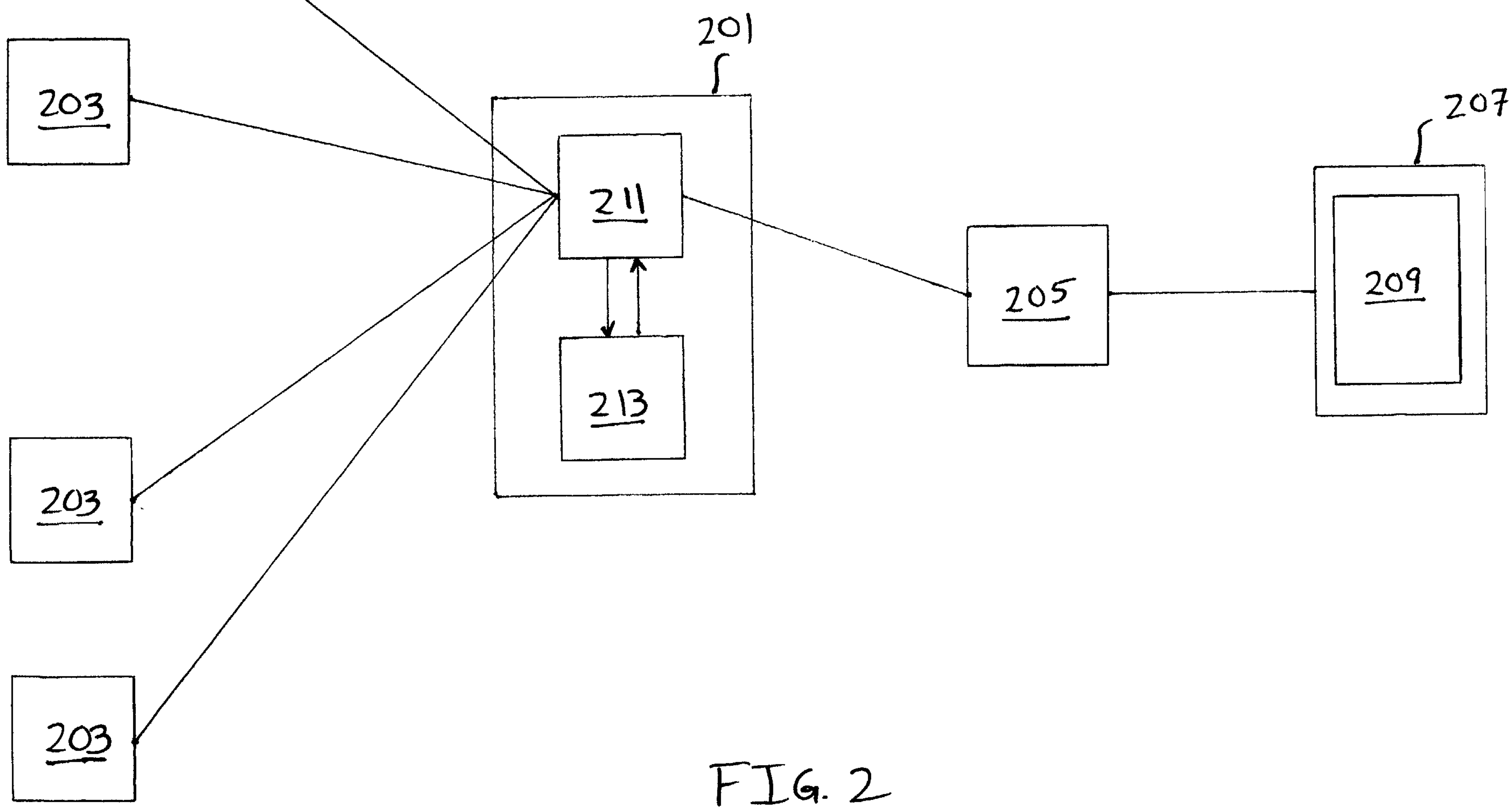

FIG. 2

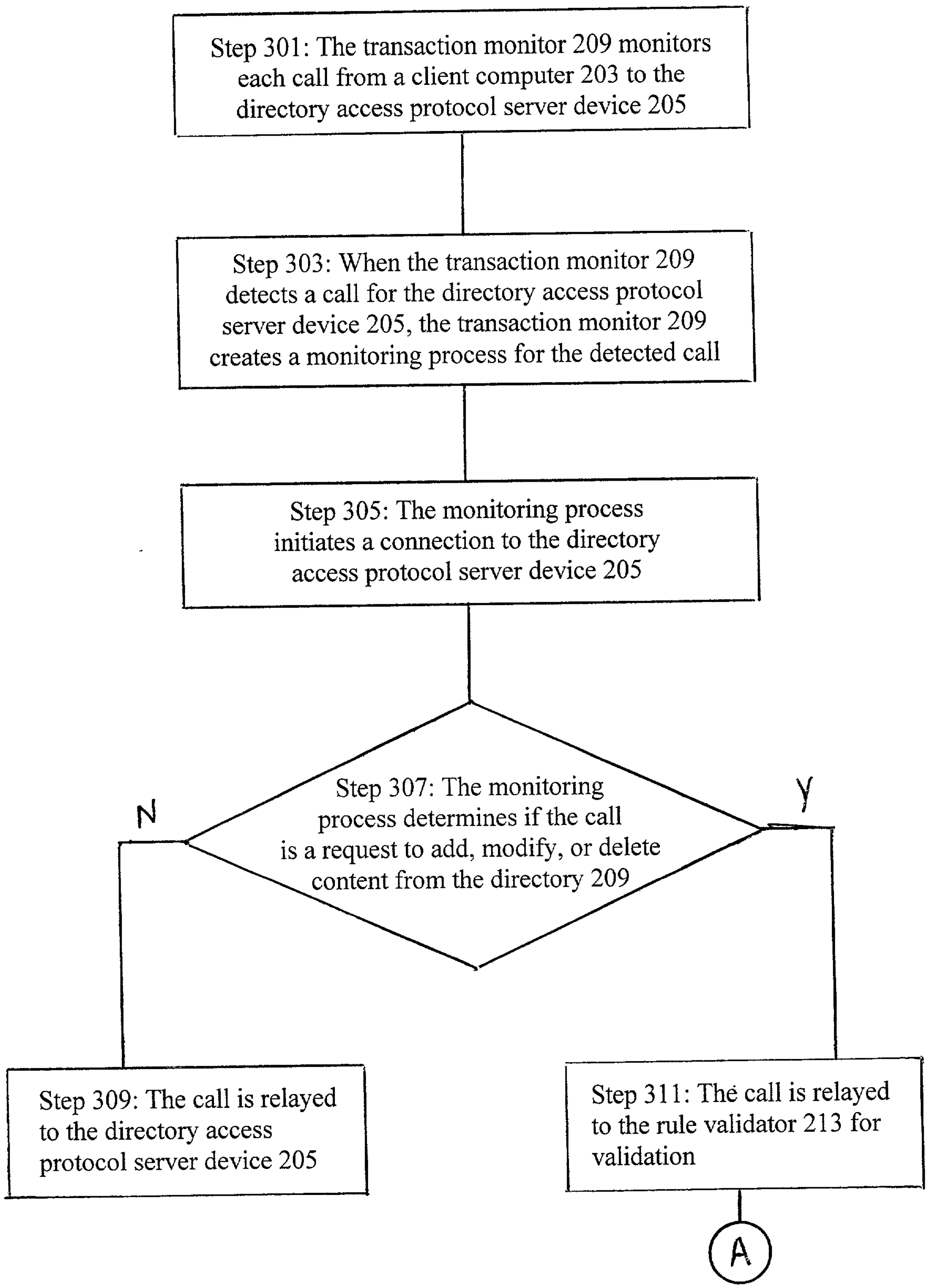
Step 301: The transaction monitor 209 monitors each call from a client computer 203 to the directory access protocol server device 205
Step 303: When the transaction monitor 209 detects a call for the directory access protocol server device 205, the transaction monitor 209 creates a monitoring process for the detected call
Step 305: The monitoring process initiates a connection to the directory access protocol server device 205
Step 307: The monitoring process determines if the call is a request to add, modify, or delete content from the directory 209
N
Y
Step 309: The call is relayed to the directory access protocol server device 205
Step 311: The call is relayed to the rule validator 213 for validation
A

FIG. 3A

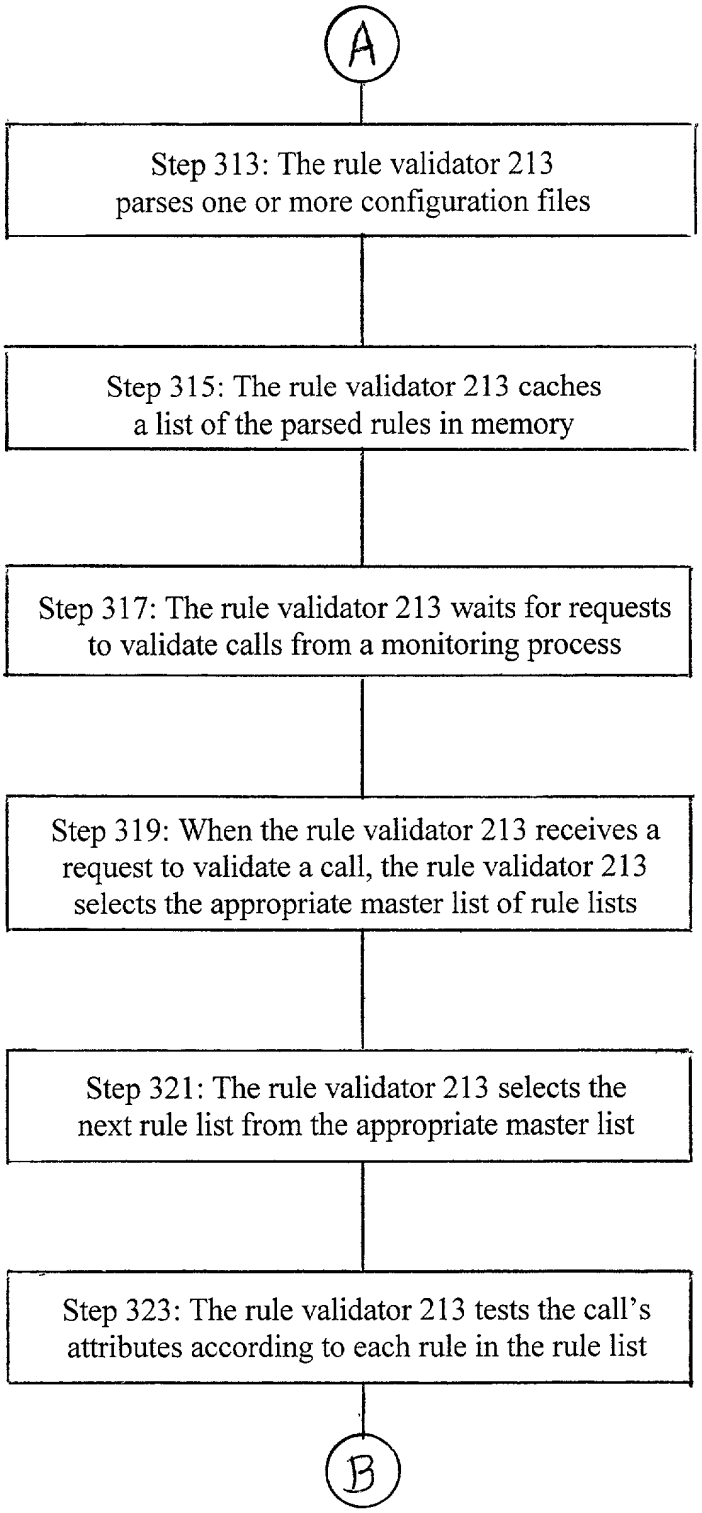
A
Step 313: The rule validator 213 parses one or more configuration files
Step 315: The rule validator 213 caches a list of the parsed rules in memory
Step 317: The rule validator 213 waits for requests to validate calls from a monitoring process
Step 319: When the rule validator 213 receives a request to validate a call, the rule validator 213 selects the appropriate master list of rule lists
Step 321: The rule validator 213 selects the next rule list from the appropriate master list
Step 323: The rule validator 213 tests the call's attributes according to each rule in the rule list
B

FIG. 3B

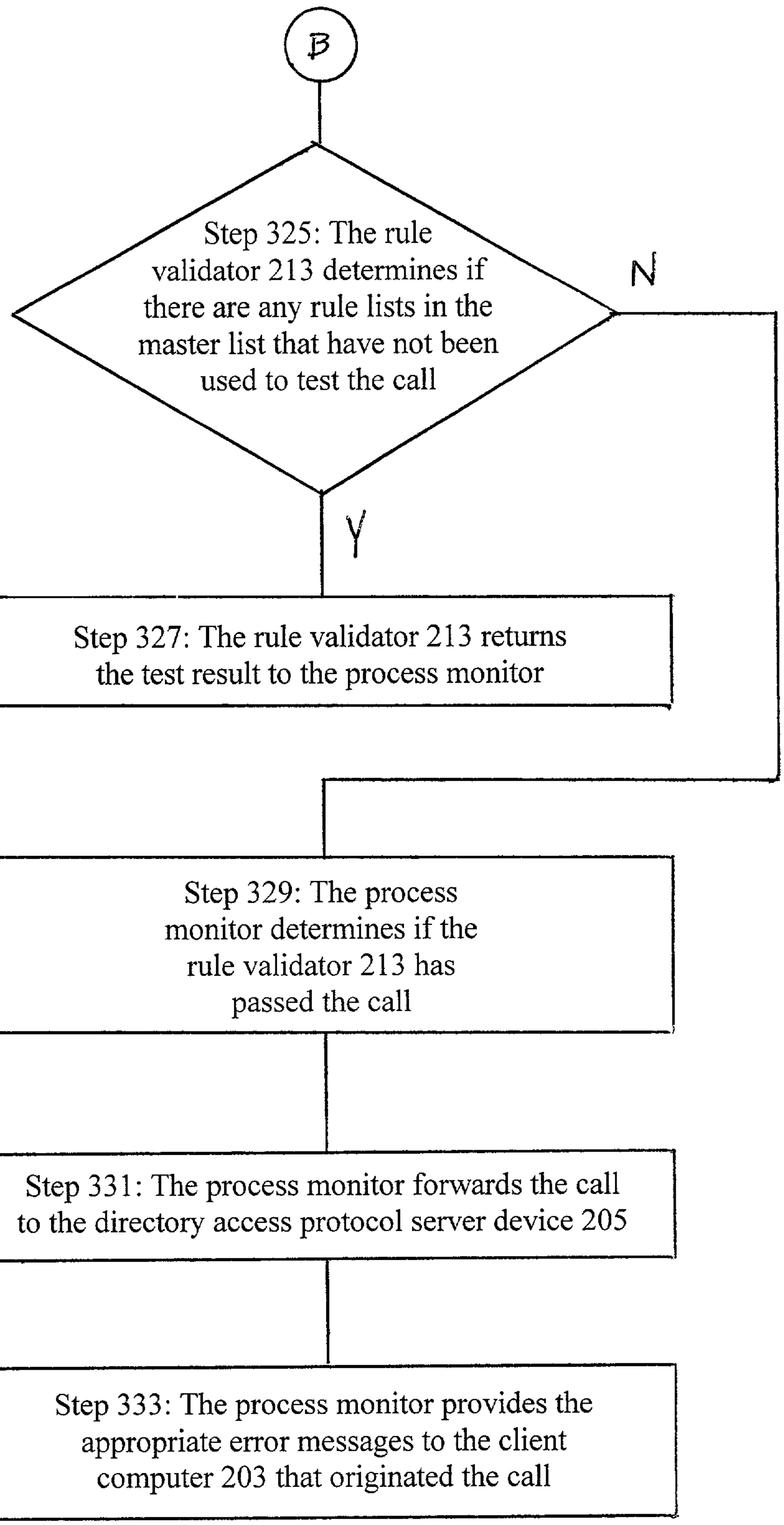
B
Step 325: The rule validator 213 determines if there are any rule lists in the master list that have not been used to test the call
N
Y
Step 327: The rule validator 213 returns the test result to the process monitor
Step 329: The process monitor determines if the rule validator 213 has passed the call
Step 331: The process monitor forwards the call to the directory access protocol server device 205
Step 333: The process monitor provides the appropriate error messages to the client computer 203 that originated the call

FIG. 3C